

Thomas McWaid et al.

Title:

System For Sensing A Sample

Application No.:

10/729,609

Filing Date:

December 5, 2003

Examiner:

am kican

Not yet assigned

Group Art Unit:

2856

Docket No.:

**TNCR.169US2** 

Conf. No.:

2888

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

## INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicants call the documents listed on the enclosed Form PTO-1449 to the Examiner's attention in this patent application. Copies of the documents listed on the accompanying Form PTO-1449 were previously submitted in Application No. 09/313,962, filed May 18, 1999, now U.S. Patent No. 6,520,505, Application No. 08/730,641, now U.S. Patent No. 5,948,972, issued September 7, 1999, and Application No. 08/362,818, filed December 22, 1994, now U.S. Patent No. 5,705,741, issued January 6, 1998, from which this Application claims an earlier effective filing date.

Citation of these documents shall not be construed as (1) an admission that the documents are prior art with respect to the invention or inventions claimed in this application, (2) a representation that a search has been made (other than as indicated by any cited document), or (3) an admission that the cited information is, or is considered to be, material to patentability as defined in § 1.56(b).

Attorney Docket No.: TNCR.169US2

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This information disclosure statement is submitted under 37 C.F.R. § 1.97(c). A check including \$180.00 for the information disclosure statement fee under 37 C.F.R. § 1.17(p), is enclosed. The Commissioner is authorized, however, to charge any fee that may be required, or to credit any overpayment, against Deposit Account No. 502664. This form is being submitted in duplicate.

FEB 0 3 2005

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Franklin Dyer

Respectfully submitted,

James S. Hsue

Date

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Department of Commerce, Patent and Trademark Atty. Docket No. Application No. NFORMATION DISCLOSURE STATEMENT BY TNCR.169US2 10/729,609 APPLICANT Applicant(s) Conf. No. (Use several sheets if necessary) Thomas McWaid 2888 **Filing Date** Group December 5, 2003. 2856 U.S. Patent Documents \*Examiner Document Filing Date **Initial** Number Date Name Class Subclass If Appropriate 1: 2,691,887 Oct., 1954 Rinker. 2 2,728,222 Dec., 1955. Becker et al. 3 3,283,568 Nov., 1966 Reason. 4 4,103,542 Aug., 1978. Wheeler et al. 5. 4,391,044 Jul., 1983 Wheeler. 6 4,441,177 Apr., 1984 Groh et al. 7. 4,574,625 Mar., 1986 Olasz et al. 8 4,641,773. Feb., 1987 Morino et al. 9 4,669,300 Jun., 1987. Hall et al. 10 4,724,318 Feb., 1988 Binnig. 11. 4,883,959 Nov., 1989 Hosoki et al. 12. 4,902,892 Feb. 1990. Okayama et al. 13. 5,146,690 Sep., 1992 Breitmeier. 14 RE33387 Oct. 1990 Binnig 15 5,162,653 Nov. 1992 Hosaka et al. 16 RE34331 Aug., 1993 Elings et al. 17 5,253,106 Oct., 1993 Hazard. 18 5,266,801 Nov., 1993. Elings et al. 19 5,307,693 May., 1994 Griffith et al. 20 5,308,974 May., 1994 Elings et al. 21 5,309,755 May., 1994 Wheeler. 22 5,347,854 Sep., 1994 Martin et al. 23. 5,406,832 Apr., 1995 Gamble et al. 24 5,412,980 May., 1995 Elings et al. 25 5,414,690 May., 1995 Shido et al. 26 5,415,027 May 1995 Elings et al. Examiner Date Considered

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

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Sheet 2 of 5

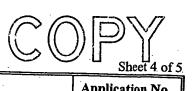
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U.S. Department of Commerce, Patent and Trademark Atty. Docket No. Application No. INFORMATION DISCLOSURE STATEMENT BY TNCR.169US2 10/729,609 **APPLICANT** Applicant(s) Conf. No. (Use several sheets if necessary) Thomas McWaid 2888 **Filing Date** Group December 5, 2003 2856 **U.S. Patent Documents** OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) "A New Force Sensor Incorporating Force-Feedback Control for Interfacial Force Microscopy", S. Joyce 49 et al., Rev. Sci. Instrum., vol. 62, No. 03, Mar. 1991, pp. 710-715. "From Molecules to Cells: Imaging Soft Samples with the Atomic Force Microscope", M. Radmacher et 50. al., Science, vol. 257, Sep. 25, 1992, pp. 1900-1905. "Dimensional Metrology of Phase-Shifting Masks with Scanning Probe Microscopes," J.E. Griffith et al., 51. SPIE, vol. 2087, Photomask Technology and Management, 1993, pp. 107-118. "Silicon Wafer Thermal Processing: 300 mm Issues," H. Huff et al., Future Fab International, 1996, pp. 35-49. "Atomic force microscopy for high speed imaging using cantilevers with an integrated actuator and 53. sensor," S.R. Manalis et al., Appl. Phys. Lett., 68(6), Feb. 5, 1996, pp. 871-873. "Single-Tube Three-Dimensional Scanner for Scanning Tunneling Microscopy," G. Binnig et al., Review 54 of Scientific Instruments, vol. 57, No. 8, Aug. 1986, pp. 1688-1689. "Magnetic Force Microscopy (MFM)," P. Grutter et al., Springer Series in Surface Sciences, Scanning 55 Tunneling Microscopy II, vol. 28, Springer-Verlag Berlin Heidelberg 1992, pp. 152-207. "A Stand-Alone Scanning Force and Friction Microscope," M. Hipp et al., Ultramicroscopy, 42-44(1992), 56 Elsevier Science Publishers B.V., pp. 1498-1503. "New Scanning Device for Scanning Tunneling Microscope Applications," R. Koops et al., Review of 57 Scientific Instruments, vol. 63, No. 8, Aug. 1992, pp. 4008-4009. "Scanning Tunneling Microscopy," G. Binnig et al., Helvetica Physica Acts, vol. 55, 1982, pp. 726-735. 58 "Two-Scanning Tunneling Microscope Devices for Large Samples," G.B. Picotto et al., Review of 59 Scientific Instruments, vol. 64, No. 9, Sep. 1993, pp. 2699-2701. "A High Precision Micropositioner Based on Magnetostriction Principle," W. Wang et al., Review of 60 Scientific Instruments, vol. 63, No. 1, Jan. 1992, pp. 249-254. "Design and Assessment of Monolithic High Precision Translation Mechanisms," S.T. Smith et al., 61 Journal of Physics E: Scientific Instruments, vol. 20, Aug. 1987, pp. 977-983. Examiner Date Considered

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